

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

03 September 2013

Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221

RE: Arkwood Monthly Sampling

SDG Number: 1308331

Enclosed are the results of analyses for samples received by the laboratory on 26-Aug-13 08:15. If you have any questions concerning this report, please feel free to contact me.

## Sample Receipt Information:

Custody Seals						
Containers Correct	~					
COC/Labels Agree	~					
Preservation Confirmed	~					
Received On Ice						
Temperature on Receipt	9.0°C					

Sincerely,

Norma James President

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**Project: Arkwood Monthly Sampling** 

Date Received: 26-Aug-13 08:15



Sample Delivery Group - 1308331

Qualified analytical and/or quality control results are discussed below:

<u>Temperature Excursion (ET):</u> The samples in this sample delivery group were received at 9 degrees Centigrade which exceeded 6 degrees Centigrade. The results of all analyses requiring temperature as a preservative were qualified as "estimated" (ET). Affected analyses: Semivolatiles (Pentachlorophenol).

### **Semivolatiles Analysis:**

<u>Matrix Spike (MS) Failure:</u> Pentachlorophenol failed to recover within acceptance criteria in the MS sample. The recovery was qualified by "%D1" in the quality control section of the final report. Pentachlorophenol was qualified as "estimated" (E20) in the parent sample, 1308331-01.



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Lab Number: 1308331-01
Sample Name: Mouth
Date/Time Collected: 8/23/13 10:50
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	65.4	E20, ET	8/29/13 14:55	A308365	8270D
2,4,6-Tribromophenol [surr]	%	96.6		8/29/13 14:55	A308365	8270D
2-Fluorophenol [surr]	%	48.4		8/29/13 14:55	A308365	8270D
Phenol-d5 [surr]	%	31.3		8/29/13 14:55	A308365	8270D

## **ANALYTICAL RESULTS**

Lab Number: 1308331-02
Sample Name: Weir
Date/Time Collected: 8/23/13 10:30
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	< 1.00	ET	8/29/13 15:16	A308365	8270D
2,4,6-Tribromophenol [surr]	%	89.0		8/29/13 15:16	A308365	8270D
2-Fluorophenol [surr]	%	46.4		8/29/13 15:16	A308365	8270D
Phenol-d5 [surr]	%	30.9		8/29/13 15:16	A308365	8270D



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### **QUALITY CONTROL RESULTS**

**Semivolatiles - Quality Control** Analyzed: 29-Aug-13 15:38 By: TB

	- 1-	,	7109	15 15:56 1	7 –					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A308365 - 3510C Modified										
Blank (A308365-BLK1)				Prepared 8	k Analyzed:	29-Aug-13				
Pentachlorophenol	ND	1.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	32.3		"	40.0		80.7	26-130			
Surrogate: 2-Fluorophenol	18.5		"	40.0		46.4	10-80			
Surrogate: Phenol-d5	12.6		"	40.0		31.6	10-58			
LCS (A308365-BS1)				Prepared 8	k Analyzed:	29-Aug-13				
Pentachlorophenol	29.8	1.00	ug/L	40.0		74.6	69-129			
Surrogate: 2,4,6-Tribromophenol	34.8		"	40.0		87.1	26-130			
Surrogate: 2-Fluorophenol	17.4		"	40.0		43.6	10-80			
Surrogate: Phenol-d5	12.2		"	40.0		30.5	5-58			
Matrix Spike (A308365-MS1)	Sour	ce: 13083	31-01	Prepared 8	k Analyzed:					
Pentachlorophenol	83.8	1.00	ug/L	40.0	65.4	46.1	50-139			%D1
Surrogate: 2,4,6-Tribromophenol	35.5		"	40.0		88.6	26-130			
Surrogate: 2-Fluorophenol	18.2		"	40.0		45.6	10-80			
Surrogate: Phenol-d5	12.6		"	40.0		31.5	10-58			
Matrix Spike Dup (A308365-MSD1)	Sour	Prepared 8	k Analyzed:	29-Aug-13						
Pentachlorophenol	89.4	1.00	ug/L	40.0	65.4	60.2	50-139	6.52	27	
Surrogate: 2,4,6-Tribromophenol	39.2		"	40.0		98.0	26-130			
Surrogate: 2-Fluorophenol	20.8		"	40.0		52.0	10-80			
Surrogate: Phenol-d5	14.4		"	40.0		36.0	10-58			

#### QUALIFIER(S)

\*%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria

\*E20: Estimated Result Due to Matrix Spike and/or Matrix Spike Duplicate Failure; This sample was used as the "parent

sample" in MS/MSD prep.

\*ET: Estimated Result; Temperature Upon Receipt Exceeded 6 Degrees Centigrade

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James President

Arkansas Analytical



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

# **CHAIN OF CUSTODY RECORD**

CLIENT INFORM	MATION						Project Desc	ription	Turnaround Time Preservation Codes:										
Oxford Environmental & Safety, Inc.						Arkwood Monthl	y Sampling	24 Hour	1. Cool,	4 Degree	es Centigi	ntigrade 4. Thiosulfate for Dechlorination					ination		
14348 Nieman Rd.				48 Hour			2. Sulfu	ric Acid	(H₂SO₄), <sub>I</sub>	0,), pH < 2 5. Hydrochloric Acid(HG				cid(HC	1)				
Overland Park KS 66221				Reporting Information 72 Hour					c Acid (H	INO <sub>3</sub> ), pH	< 2			6. Sodiu	odium Hydroxide (NaOH), pH > 12				
					Telephone: 913-706-3422 Routin			Routine (5 Day)			TEST	ST PARAMET			ERS Bottle 7		Bottle Type Code		
Attn: Jim Fleer						E	Email: jfleer@oxfo	rdeands.com	Preservative Code:	1									G = Glass; P = Plastic
									Bottle Type:	GA								_	V = Septum; A = Amber
Sampler(s) Signature Sample				oler(s)	Print	ed			Pentachlorophenol (8270D)									Arkansas Analytical Work Order Number:	
Field	SAMPLE C	OLLECTION			Number			SAMPLE		tach 70D									
Number	Date/s	Time/s	Grab	Comp	of Bottles	Sample Matrix	IDENTIF	ICATION/ DESC	RIPTION	Pen (827									30833 -
	8 23 13	10:50	Х		1	Water	Mouth			х									01
	8123/13	10:30	Х		1		Weir			X									02
	310-10	10.30			-	vvater	vveir			^									02
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			-		┢	-													
			-	-	-	-													
1. Relinguished by: (Signature) Date/Time 2. Received			ceived	by: (Signature) SAMPLE CONDITION UPON I					T IN LAE	3	REMARKS / SAMPLE COMMENTS						ENTS		
0/22/12				P	10	1. CUSTODY SEA	ALS:	✓ Ye	s	No I	MS/MSD Collected from: Mouth								
2 4	Im	8/23/13					Somols	2. CONTAINERS		1		- 1		ek:			We		Mouth
agos (	)'	11:45		8	124	113				Ye				יאש :			A 6.0		6.79
			3. COC/LABELS AGRE						s		031	7	70	- 1					
3_Relinquished by: (Signature) Date/Time							(Signature)		TION CONFIRMED: Yes No				03 % : 17.5 Temp 18.33 14.25						
Jeany 7	Bounds	8 26 13	5,	S	Jd 1	W		5. RECEIVED ON			s	No	0, 1	1 Solvel	. —	D	238	.2	41.7
		NRIS		(			10. 7	6. TEMPERATUR	RE ON RECEIPT:	10									
Revision 1				James				FOR COMPLETION BY LAB ONLY											